

50200401
Hanging Wall
Monte Carlo Results

Forecast: Oil in Oil Fields

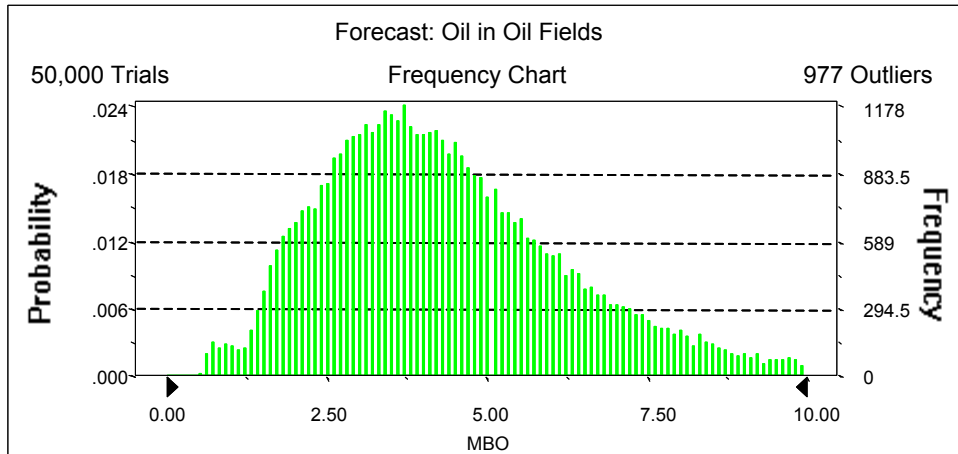
Summary:

Display range is from 0.00 to 10.00 MBO

Entire range is from 0.56 to 17.52 MBO

After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	4.47
Median	4.13
Mode	---
Standard Deviation	2.09
Variance	4.36
Skewness	1.09
Kurtosis	4.92
Coefficient of Variability	0.47
Range Minimum	0.56
Range Maximum	17.52
Range Width	16.96
Mean Standard Error	0.01



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.56
95%	1.75
90%	2.14
85%	2.47
80%	2.75
75%	2.99
70%	3.22
65%	3.45
60%	3.67
55%	3.89
50%	4.13
45%	4.37
40%	4.62
35%	4.89
30%	5.20
25%	5.56
20%	5.98
15%	6.50
10%	7.22
5%	8.37
0%	17.52

End of Forecast

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Forecast: Gas in Oil Fields

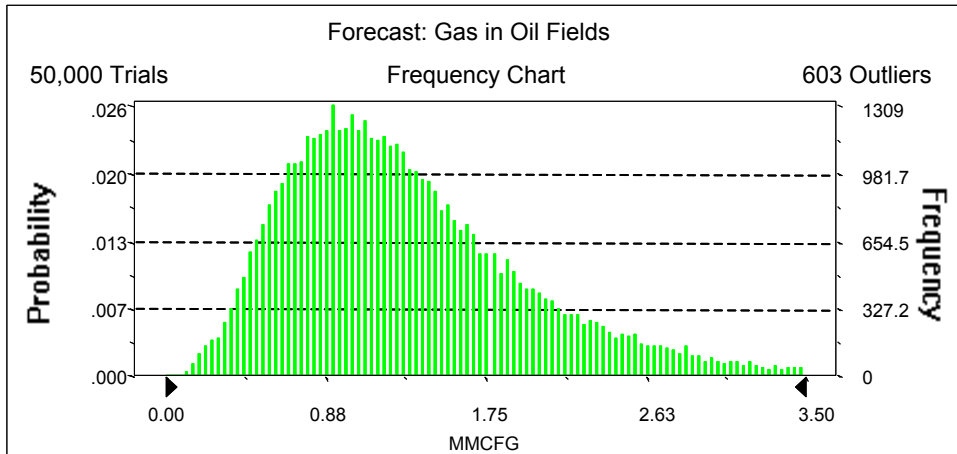
Summary:

Display range is from 0.00 to 3.50 MMCFG

Entire range is from 0.12 to 5.95 MMCFG

After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.34
Median	1.21
Mode	---
Standard Deviation	0.70
Variance	0.48
Skewness	1.27
Kurtosis	5.55
Coefficient of Variability	0.52
Range Minimum	0.12
Range Maximum	5.95
Range Width	5.83
Mean Standard Error	0.00



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMCFG</u>
100%	0.12
95%	0.47
90%	0.59
85%	0.69
80%	0.77
75%	0.85
70%	0.92
65%	0.99
60%	1.06
55%	1.13
50%	1.21
45%	1.29
40%	1.37
35%	1.46
30%	1.57
25%	1.69
20%	1.83
15%	2.01
10%	2.26
5%	2.67
0%	5.95

End of Forecast

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Forecast: NGL in Oil Fields

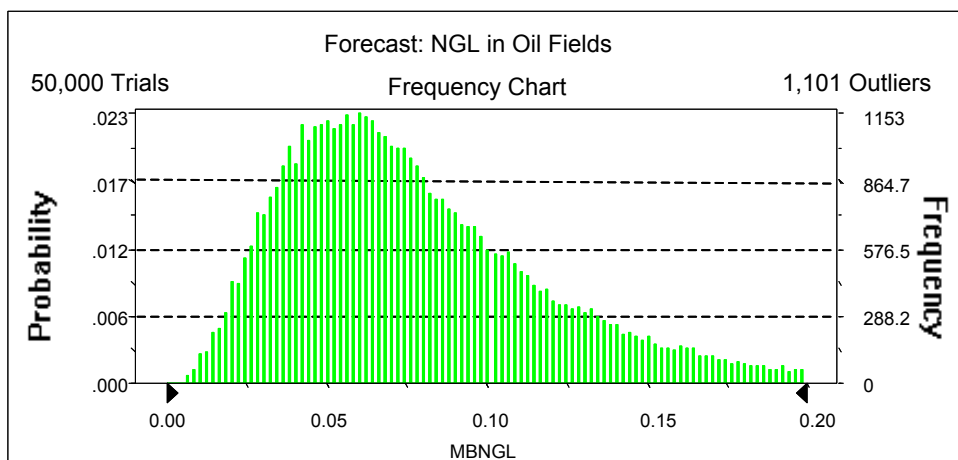
Summary:

Display range is from 0.00 to 0.20 MBNGL

Entire range is from 0.01 to 0.39 MBNGL

After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	0.08
Median	0.07
Mode	---
Standard Deviation	0.05
Variance	0.00
Skewness	1.43
Kurtosis	6.18
Coefficient of Variability	0.57
Range Minimum	0.01
Range Maximum	0.39
Range Width	0.38
Mean Standard Error	0.00



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBNGL</u>
100%	0.01
95%	0.03
90%	0.03
85%	0.04
80%	0.04
75%	0.05
70%	0.05
65%	0.06
60%	0.06
55%	0.07
50%	0.07
45%	0.08
40%	0.08
35%	0.09
30%	0.09
25%	0.10
20%	0.11
15%	0.12
10%	0.14
5%	0.17
0%	0.39

End of Forecast

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Forecast: Largest Oil Field

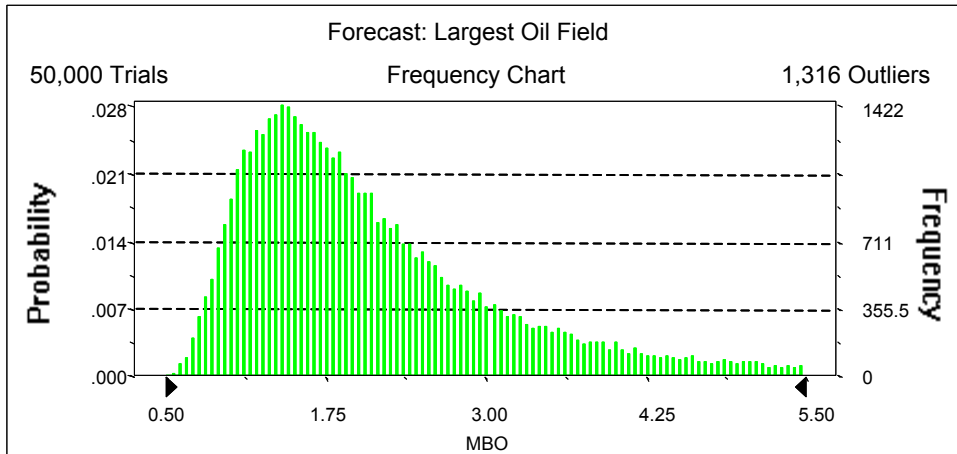
Summary:

Display range is from 0.50 to 5.50 MBO

Entire range is from 0.56 to 9.97 MBO

After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	2.21
Median	1.87
Mode	---
Standard Deviation	1.23
Variance	1.52
Skewness	2.06
Kurtosis	9.00
Coefficient of Variability	0.56
Range Minimum	0.56
Range Maximum	9.97
Range Width	9.41
Mean Standard Error	0.01



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.56
95%	0.96
90%	1.10
85%	1.20
80%	1.30
75%	1.39
70%	1.48
65%	1.57
60%	1.67
55%	1.77
50%	1.87
45%	1.99
40%	2.12
35%	2.27
30%	2.44
25%	2.64
20%	2.89
15%	3.23
10%	3.71
5%	4.62
0%	9.97

End of Forecast

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Forecast: Gas in Gas Fields

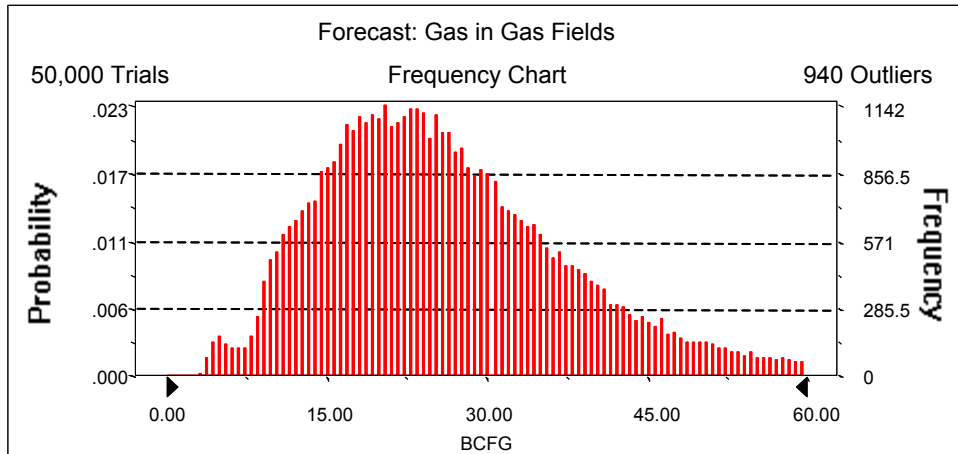
Summary:

Display range is from 0.00 to 60.00 BCFG

Entire range is from 3.29 to 121.53 BCFG

After 50,000 trials, the standard error of the mean is 0.06

Statistics:	Value
Trials	50000
Mean	26.81
Median	24.78
Mode	---
Standard Deviation	12.51
Variance	156.46
Skewness	1.13
Kurtosis	5.28
Coefficient of Variability	0.47
Range Minimum	3.29
Range Maximum	121.53
Range Width	118.24
Mean Standard Error	0.06



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.29
95%	10.48
90%	12.90
85%	14.86
80%	16.52
75%	17.96
70%	19.35
65%	20.70
60%	22.10
55%	23.45
50%	24.78
45%	26.23
40%	27.74
35%	29.42
30%	31.19
25%	33.34
20%	35.80
15%	38.86
10%	42.94
5%	50.27
0%	121.53

End of Forecast

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Forecast: NGL in Gas Fields

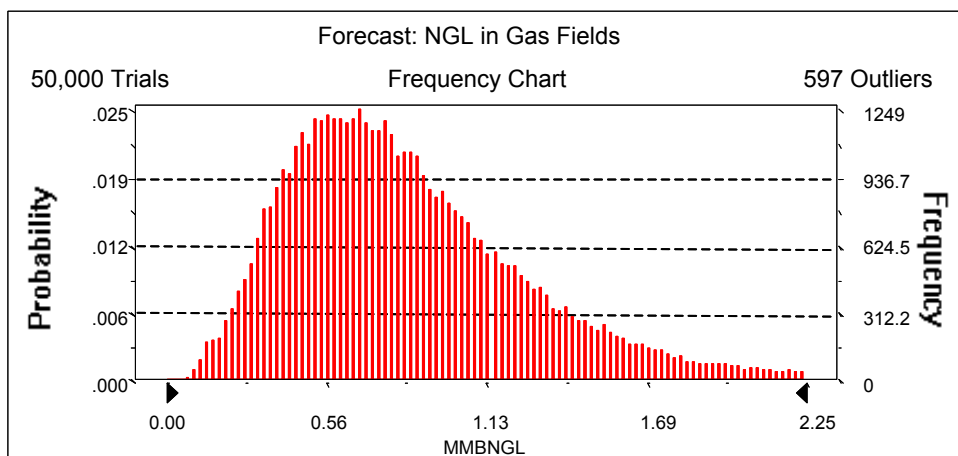
Summary:

Display range is from 0.00 to 2.25 MMBNGL

Entire range is from 0.07 to 5.03 MMBNGL

After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	0.86
Median	0.78
Mode	---
Standard Deviation	0.45
Variance	0.20
Skewness	1.35
Kurtosis	6.38
Coefficient of Variability	0.52
Range Minimum	0.07
Range Maximum	5.03
Range Width	4.96
Mean Standard Error	0.00



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.07
95%	0.30
90%	0.38
85%	0.44
80%	0.49
75%	0.54
70%	0.59
65%	0.64
60%	0.68
55%	0.73
50%	0.78
45%	0.83
40%	0.88
35%	0.94
30%	1.01
25%	1.08
20%	1.17
15%	1.28
10%	1.44
5%	1.70
0%	5.03

End of Forecast

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Forecast: Largest Gas Field

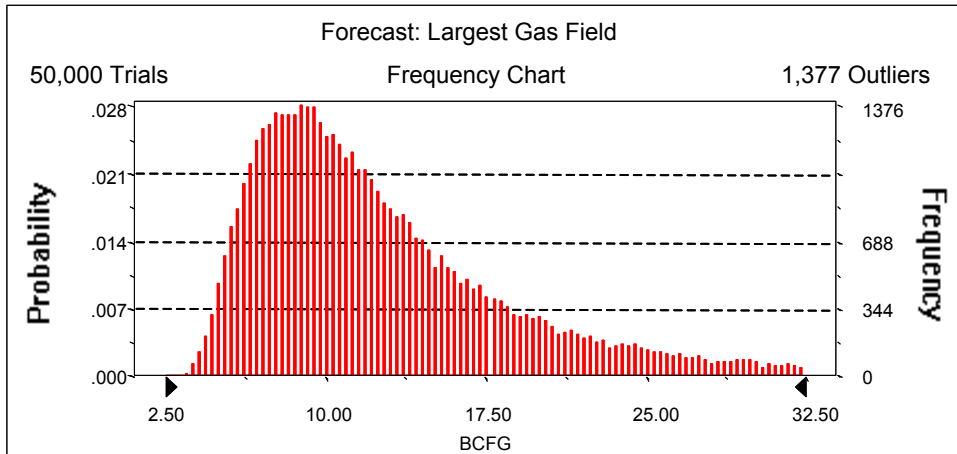
Summary:

Display range is from 2.50 to 32.50 BCFG

Entire range is from 3.29 to 59.97 BCFG

After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	13.24
Median	11.26
Mode	---
Standard Deviation	7.34
Variance	53.84
Skewness	2.03
Kurtosis	8.89
Coefficient of Variability	0.55
Range Minimum	3.29
Range Maximum	59.97
Range Width	56.68
Mean Standard Error	0.03



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.29
95%	5.76
90%	6.57
85%	7.19
80%	7.77
75%	8.33
70%	8.89
65%	9.43
60%	10.00
55%	10.61
50%	11.26
45%	11.97
40%	12.73
35%	13.62
30%	14.61
25%	15.83
20%	17.33
15%	19.37
10%	22.30
5%	27.63
0%	59.97

End of Forecast

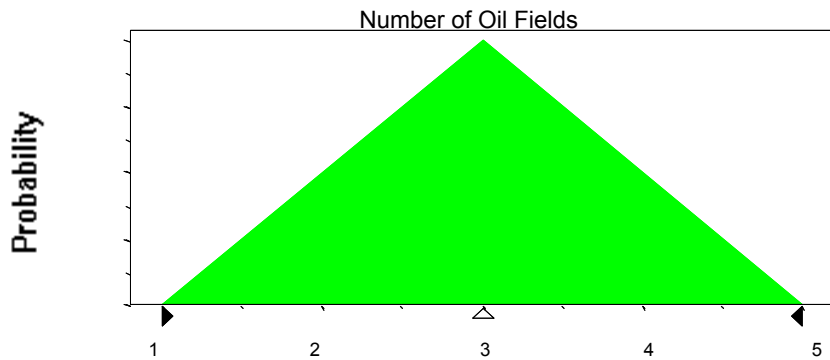
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	5

Selected range is from 1 to 5
Mean value in simulation was 3



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	1.00
Standard Deviation	1.02

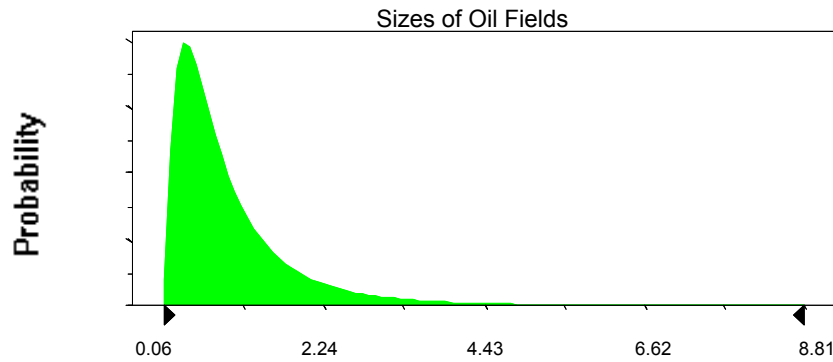
Shifted parameters

1.50
1.02

Selected range is from 0.00 to 9.50
Mean value in simulation was 0.99

0.50 to 10.00
1.49

Assumption: Sizes of Oil Fields (cont'd)



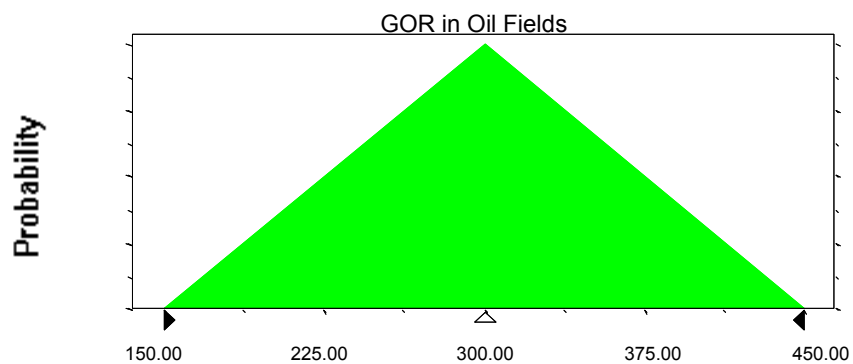
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	150.00
Likeliest	300.00
Maximum	450.00

Selected range is from 150.00 to 450.00

Mean value in simulation was 299.98



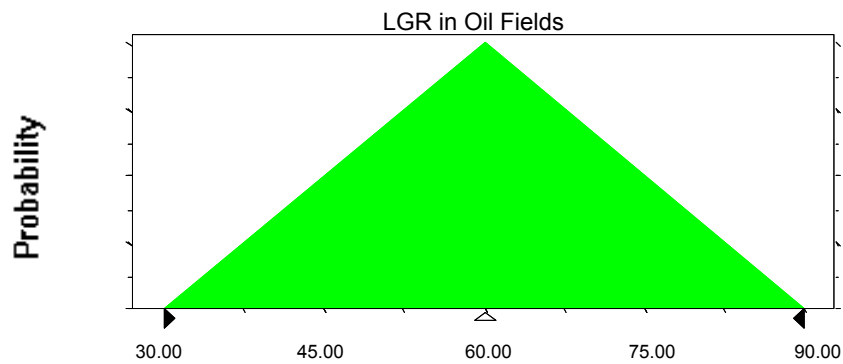
Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	30.00
Likeliest	60.00
Maximum	90.00

Selected range is from 30.00 to 90.00

Mean value in simulation was 59.99



Assumption: Number of Gas Fields

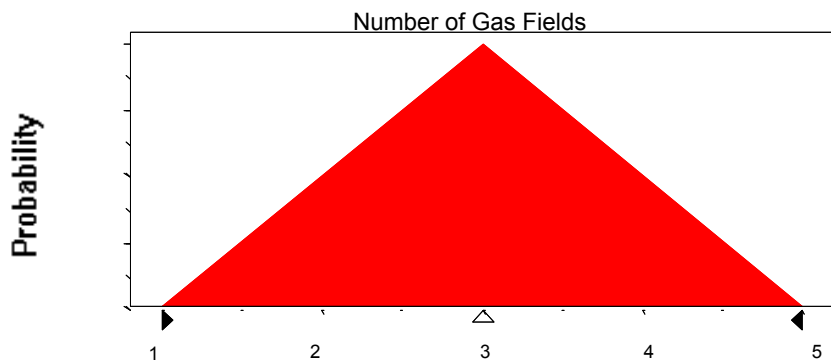
Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	5

Selected range is from 1 to 5

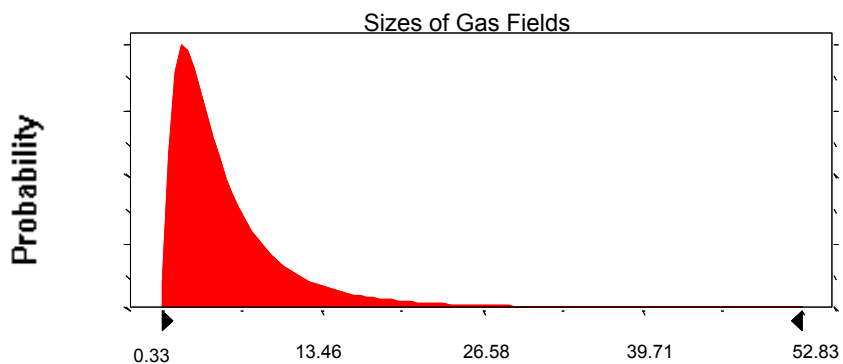
Mean value in simulation was 3

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:	Shifted parameters	
Mean	6.00	9.00
Standard Deviation	6.11	6.11
Selected range is from 0.00 to 57.00	3.00 to 60.00	
Mean value in simulation was 5.90	8.90	



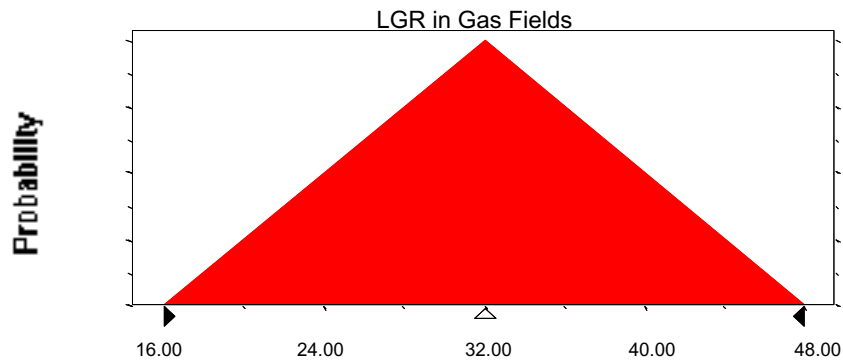
Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	16.00
Likeliest	32.00
Maximum	48.00

Selected range is from 16.00 to 48.00

Mean value in simulation was 32.07



End of Assumptions

Simulation started on 10/20/00 at 16:30:37

Simulation stopped on 10/20/00 at 16:43:45

